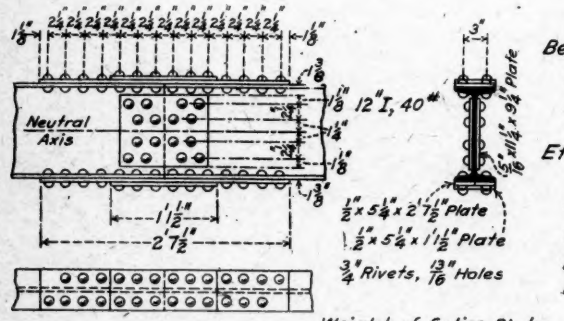
Contributed by A. L. Campbell

Splice for 12 inch - 40 pound I beam.



Bending efficiency of splice:

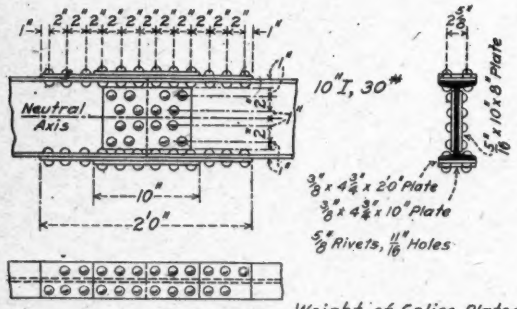
Rivets,	104%
Net section of beam,	80.7%

Efficiency of splice for direct tension:

Rivets,	89.7%
Net section of beam,	86.7%
Net section of splice plates,	95.4%

Weight of Splice Plates 85 pounds.

Splice for 10 inch - 30 pound I-beam.



Bending efficiency of splice:

Rivets,	89.1%
Net section of beam,	84.5%

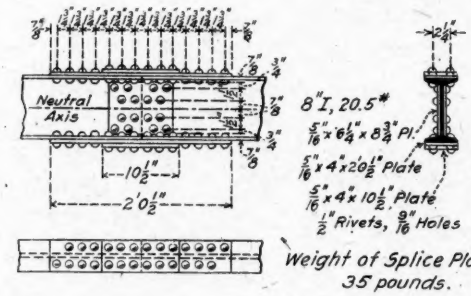
Efficiency of splice for direct tension:

Rivets,	79.2%
Net section of beam,	89.8%
Net section of splice plates	96.4%

Weight of Splice Plates 50 pounds.

Contributed by A. L. Campbell

Splice for 8 inch, 20½ pound I-beam.



Bending efficiency of splice:

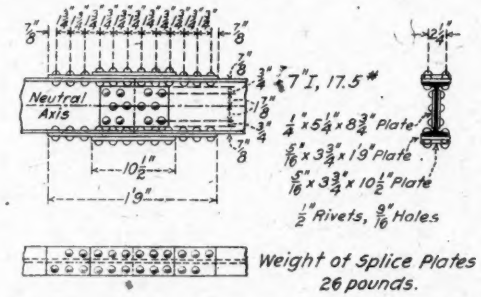
Rivets,	81%
Net section of beam,	82.6%

Efficiency of splice for direct tension:

Rivets,	82.2%
Net section of beam,	88.8%
Net section of splice plates,	100%

Weight of Splice Plates 35 pounds.

Splice for 7 inch, 17.5 pound I-beam.



Bending efficiency of splice:

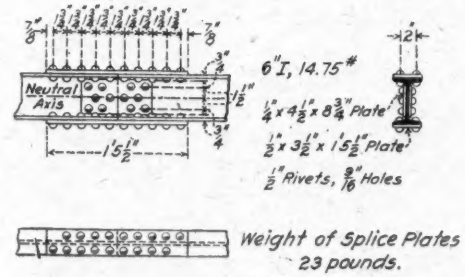
Rivets,	92.3%
Net section of beam.	82.8%

Efficiency of splice for direct tension:

Rivets,	78%
Net section of beam,	88.4%
Net section of splice plates,	89.7%

Weight of Splice Plates 26 pounds.

Splice for 6 inch, 14¾ pound I-beam.



Bending efficiency of splice:

Rivets,	83.3%
Net section of beam,	89%

Efficiency of splice for direct tension:

Rivets,	81.3%
Net section of beam,	87.8%
Net section of splice plates,	91.5%

Weight of Splice Plates 23 pounds.

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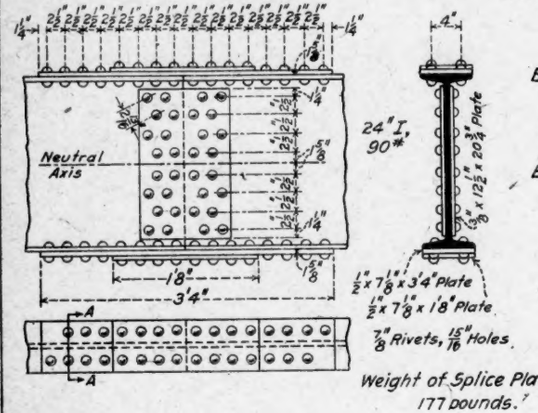
Supplement to MACHINERY, Nov
Data and Diagrams for the Article in this number entitled "Splices for

IV.—SPLICES FOR I-BEAMS

Contributed by A. L. Campbell

Splice for 24 inch, 90 pound I-beam.



Bending efficiency of splice:

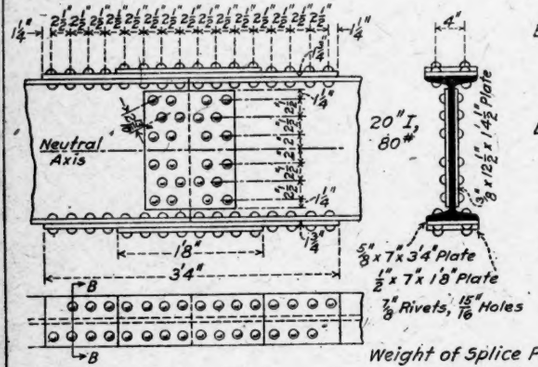
Rivets,	85.4%
Net section of beam,	85.2%

Efficiency of splice for direct tension:

Rivets,	83.7%
Net section of beam,	91.2%
Net section of splice plates,	82.4%

Weight of Splice Plates 177 pounds.

Splice for 20 inch, 80 pound I-beam.



Bending efficiency of splice:

Rivets,	90%
Net section of beam	82.8%

Efficiency of splice for direct tension:

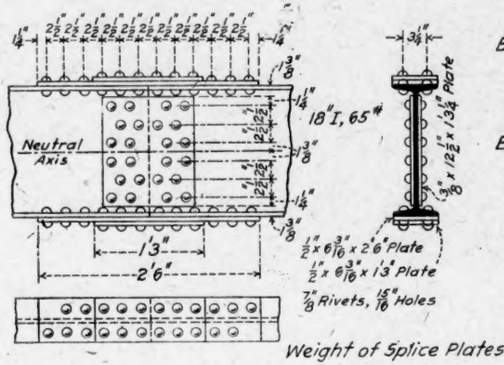
Rivets,	80.7%
Net section of beam,	88.8%
Net section of splice plates,	86.7%

Weight of Splice Plates 183 pounds.

III.—SPLICES FOR I-BEAMS

Contributed by A. L. Campbell

Splice for 18 inch, 65 pound I-beam.



Bending efficiency of splice:

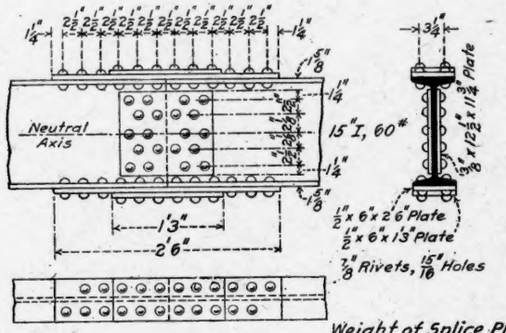
Rivets,	93.6%
Net section of beam,	84.2%

Efficiency of splice for direct tension:

Rivets,	85.8%
Net section of beam,	90.6%
Net section of splice plates,	87.8%

Weight of Splice Plates 120 pounds.

Splice for 15 inch, 60 pound I-beam.



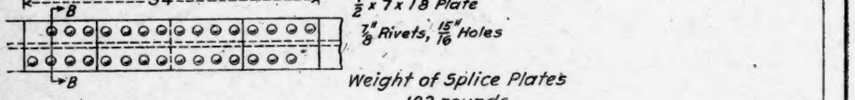
Bending efficiency of splice:

Rivets,	87.3%
Net section of beam,	80%

Efficiency of splice for direct tension:

Rivets,	84%
Net section of beam,	87%
Net section of splice plates,	83.2%

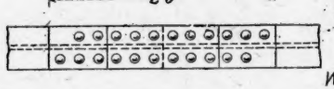
Weight of Splice Plates 108 pounds.



$\frac{1}{2}$ x 7 x 18 Plate

$\frac{7}{8}$" Rivets, $\frac{15}{16}$" Holes

Weight of Splice Plates
183 pounds.



$\frac{7}{8}$" Rivets, $\frac{15}{16}$" Holes

Weight of Splice Plates
108 pounds.